

Date: Fri, 11 Mar 94 04:30:32 PST
From: Ham-Homebrew Mailing List and Newsgroup <ham-homebrew@ucsd.edu>
Errors-To: Ham-Homebrew-Errors@UCSD.Edu
Reply-To: Ham-Homebrew@UCSD.Edu
Precedence: Bulk
Subject: Ham-Homebrew Digest V94 #57
To: Ham-Homebrew

Ham-Homebrew Digest Fri, 11 Mar 94 Volume 94 : Issue 57

Today's Topics:

 Alliance 5-wire Rotor Motor Questions
 Best cars for mobile HF/VHF??
 Converting cheap-o walkie-talkies (stabilizing crystals?)
 PC or old Mac conversion to oscilloscopes
 Testing for very low magnetic fields? (3 msgs)

Send Replies or notes for publication to: <Ham-Homebrew@UCSD.Edu>
Send subscription requests to: <Ham-Homebrew-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Homebrew Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-homebrew".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 10 Mar 94 14:59:01 GMT
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!math.ohio-state.edu!
magnus.acs.ohio-state.edu!csn!yuma!galen@network.ucsd.edu
Subject: Alliance 5-wire Rotor Motor Questions
To: ham-homebrew@ucsd.edu

I've acquired an Alliance rotor motor with no control box. The rotor
takes 5 wires, has the rotating mast thru the body and the mast top clamp
on the side of the case. I've been told this style is often used as an
altitude rotor on Satellite setups.

Questions:

1. What voltage does it take to turn the motor? AC or DC?
2. What are the pinouts for the five wires?
3. What is the model number or other ID's? (nothing on the case but Alliance).

I can open it up to get the pinouts, but I don't want to burn it out with
the wrong voltage etc.

I'm planning to use it to turn small VHF/UHF antennas.

Any positive responses are greatly appreciated!!!!
Galen, KF0YJ

Date: 10 Mar 1994 23:13:01 -0500
From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!
howland.reston.ans.net!news.intercon.com!udel!news.udel.edu!brahms.udel.edu!not-
for-mail@network.ucsd.edu
Subject: Best cars for mobile HF/VHF??
To: ham-homebrew@ucsd.edu

I need to replace a car and want one which 100 watts or so of HF and 50 watts
or so of 2 meters or 440 will not interfere with the electronics af the
vehicle. Nor do I want ignition or other noise beyond the bare minimum.

In consideration are four door sedans from the size of a Corolla up to that
of a Taurus. or perhaps a minivan or small pickup. Replacing a Ford
Aerostar.

Will listen to all viewpoints. Tnx a million. Bob

--
Bob Penneys, WN3K Frankford Radio Club Internet: penneys@pecan.cns.udel.edu
Work: Ham Radio Outlet (Delaware) (800) 644-4476; fax (302) 322-8808
Mail at home: 12 East Mill Station Drive Newark, DE 19711 USA

Date: 10 Mar 94 16:49:30 GMT
From: dog.ee.lbl.gov!agate!howland.reston.ans.net!noc.near.net!hopscotch.ksr.com!
jfw@ucbvax.berkeley.edu
Subject: Converting cheap-o walkie-talkies (stabilizing crystals?)
To: ham-homebrew@ucsd.edu

jsherman@nyx10.cs.du.edu (Jonathan Sherman) writes:
>I've been thinking about how most walkie-talkies work at 49.9xxMHz and it
<occured to me that 6m is 50.1 and higher... So - I grabbed a cheap-o
>walkie-talkie (an AM and an FM) from RS, ripped it open and started to see
<what I could do to it. I found that I could tune to a 6 MHz range using
>the little tuning coil inside and my freq. counter. However, I couldn't
<get a stable signal once I deviated very much from the frequency it was
>designed for. Is this due to the crystal?

No, it's due to the fact that you're no longer using the crystal for frequency
control; once you try to pull it too far, the LC components around it become
the dominant control element. What you need to do is get a crystal for 6m
and change the crystal so you don't have to try and pull the frequency so far.

Date: 10 Mar 1994 14:06:07 -0500
From: idacrd.ccr-p.ida.org!idacrd.ccr-p.ida.org!not-for-mail@uunet.uu.net
Subject: PC or old Mac conversion to oscilloscopes
To: ham-homebrew@ucsd.edu

Can someone tell me where or how I can find inexpensive software which will allow me to use my old Macintosh 128k (upgraded years ago to 512k) as a simple, functional oscilloscope. I would like to do some simple experiments with my children, probing electrical circuits or exploring speech signals. Surely there is some way to easily use the microphone jack as a source of input. I need to sample the signal being probed, write to a file, then use that file to create a graphical display of the signal. Maybe one can do it in real time also. Any help would be appreciated, I have this old mac with which I can do nothing useful and this would be a worthwhile project. If the mac can not be used this way what about my much newer PC?

Date: 10 Mar 1994 18:48:36 GMT
From: ihnp4.ucsd.edu!swrinde!elroy.jpl.nasa.gov!wp-sp.nba.trw.com!acsc.com!pravda.sdsc.edu!nic-nac.CSU.net!news.Cerritos.edu!news.Arizona.EDU!helium!cwilliam@network.ucsd.edu
Subject: Testing for very low magnetic fields?
To: ham-homebrew@ucsd.edu

What equipment is available (relatively inexpensively) for testing for very low magnetic field radiation, such as around monitors? Are there are projects in any of the consumer electronic-do-it-yourself mags?

I don't want to get into a debate about whether such testing is worthwhile (at least not now).

Thanks,
cwilliam@gas.uug.arizona.edu

Date: 10 Mar 1994 20:04:40 GMT
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!europa.eng.gtefsd.com!news.msfc.nasa.gov!news.larc.nasa.gov!grissom.larc.nasa.gov!kludge@network.ucsd.edu

Subject: Testing for very low magnetic fields?
To: ham-homebrew@ucsd.edu

In article <2lnq24\$g8d@auggie.CCIT.Arizona.EDU>
cwilliam@helium.gas.uug.arizona.edu (Catherine S Williams) writes:
>What equipment is available (relatively inexpensively) for testing
>for very low magnetic field radiation, such as around monitors?
>Are there are projects in any of the consumer electronic-do-it-
>yourself mags?

How about a compass?
--scott
--

"C'est un Nagra. C'est suisse, et tres, tres precis."

Date: Fri, 11 Mar 1994 01:07:04 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!news.ucdavis.edu!chip.ucdavis.edu!
ez006683@network.ucsd.edu
Subject: Testing for very low magnetic fields?
To: ham-homebrew@ucsd.edu

Bob Nagy (kreblon@doc.cc.utexas.edu) wrote:
: calibration was un-nessasary and that a reading of -2 on the 60db
: scale equated to the lower level that had been linked to damage in
: the Denver studies. (anything above that) We have run many tests on
: plant tissue here at a number of frequencies and show nothing
: concrete. The word today is "prudent Avoidance" I still have a few of those
: meters, and Id be glad to loan you one.

There is no evidence of this causing any damage therefore avoidance is
recommended? You sound like my high school sex-ed teacher. :-)

cheers,
Dan

Date: Thu, 10 Mar 94 14:16:38 GMT
From: mnemosyne.cs.du.edu!nyx!tvaughan@uunet.uu.net
To: ham-homebrew@ucsd.edu

References <2lebk\$kmk@hpsc.it.sc.hp.com>, <2lh20r\$auf@bigfoot.wustl.edu>,
<gscottCMDK7n.4x@netcom.com>
Subject : Re: GPS Receiver Boards

gscott@netcom.com (Gavin Scott) writes:

>Jesse L Wei (jlw3@cec3.wustl.edu) wrote:
>: Richard Karlquist (rkarlqu@scd.hp.com) wrote:
>: : The Motorola GPS receiver is less than \$150 in 100's. It has six
>: : channels and just about all the features you would ever want.

>: The question is: who's going to be buying in 100's?

>I'll take one. Now you only have 99 more to get rid of!

>Gavin
>--
>Gavin Scott - Quest Software Inc - gavin@quests.com -or- gscott@netcom.com

Make that 98 more to get rid of.

Tom

End of Ham-Homebrew Digest V94 #57
